

HISTORY OF FOOTBALL

CSE 3020 REVIEW 1

BHAVUK MITTAL 20BCE1954

PALLAV AGGARWAL 20BCE1379

DEEPANSH TRIPATHI 20BCE1800

INTRODUCTION

Football is a very famous sport across the globe which is beloved and watched by many. The first matches recorded date back to as far as 1872.

With the FIFA World Cup ending recently, we were inspired to visualize the data of various international football matches from 1872 all upto 2022.

ABSTRACT

Football has a lot of data to cover, from the individual to the team level. We can gain a better understanding of the game by using the data.

Furthermore, data can generate insights that lead to decision-making for teams. As a result, the team can develop strategies to win the game.

In our project, we visualize and show games played by various countries over the years, the goals scored , win rate and many different trends over the years.

DATASET

```
[ ] # Reading input file.  
df <- read_csv("results.csv")  
head(df)
```

Rows: 44353 Columns: 9

— Column specification —

Delimiter: ","

chr (5): home_team, away_team, tournament, city, country

dbl (2): home_score, away_score

lgl (1): neutral

date (1): date

i Use `spec()` to retrieve the full column specification for this data.

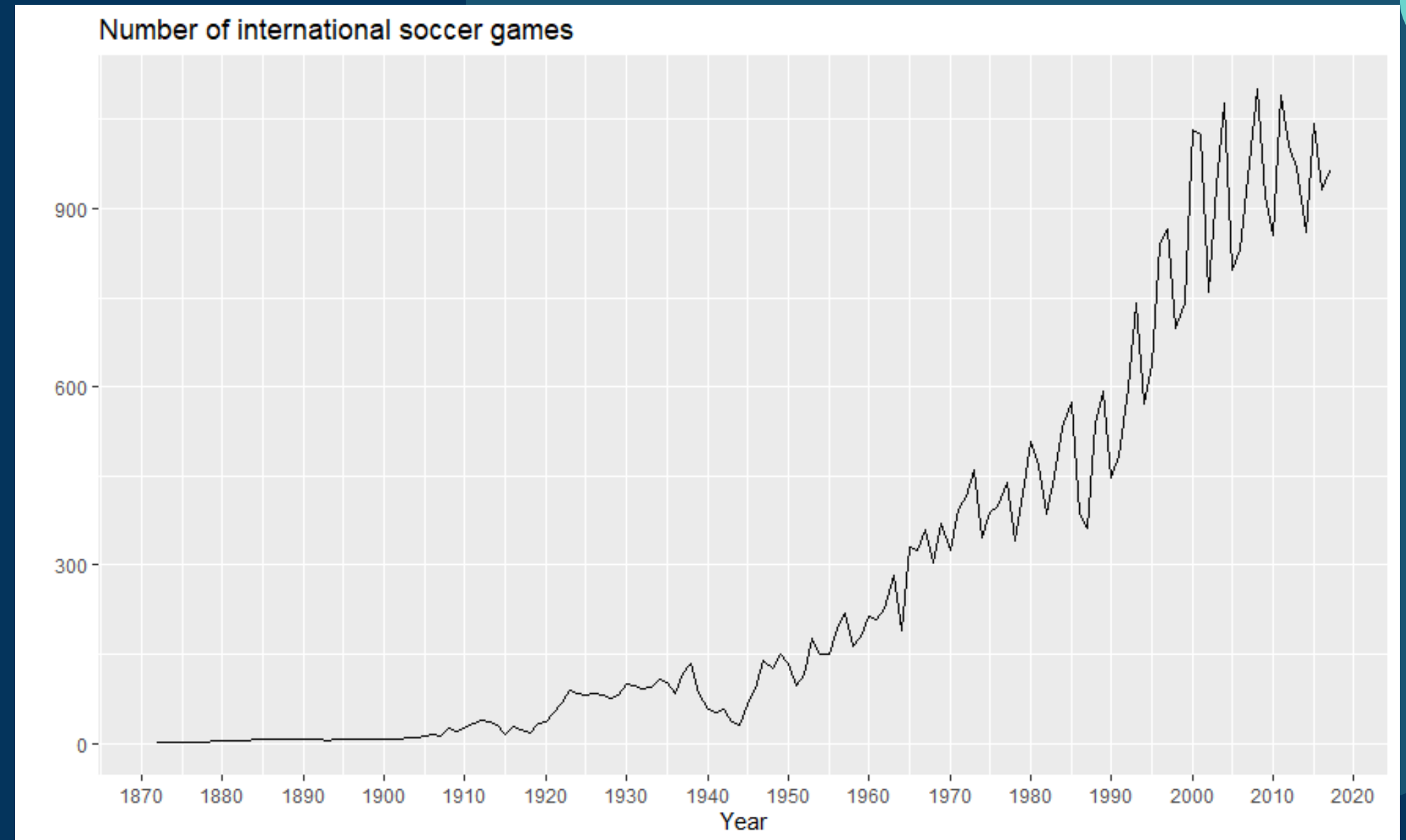
i Specify the column types or set `show_col_types = FALSE` to quiet this message.

A tibble: 6 × 9

date	home_team	away_team	home_score	away_score	tournament	city	country	neutral
<date>	<chr>	<chr>	<dbl>	<dbl>	<chr>	<chr>	<chr>	<lgl>
1872-11-30	Scotland	England	0	0	Friendly	Glasgow	Scotland	FALSE
1873-03-08	England	Scotland	4	2	Friendly	London	England	FALSE
1874-03-07	Scotland	England	2	1	Friendly	Glasgow	Scotland	FALSE
1875-03-06	England	Scotland	2	2	Friendly	London	England	FALSE
1876-03-04	Scotland	England	3	0	Friendly	Glasgow	Scotland	FALSE
1876-03-25	Scotland	Wales	4	0	Friendly	Glasgow	Scotland	FALSE

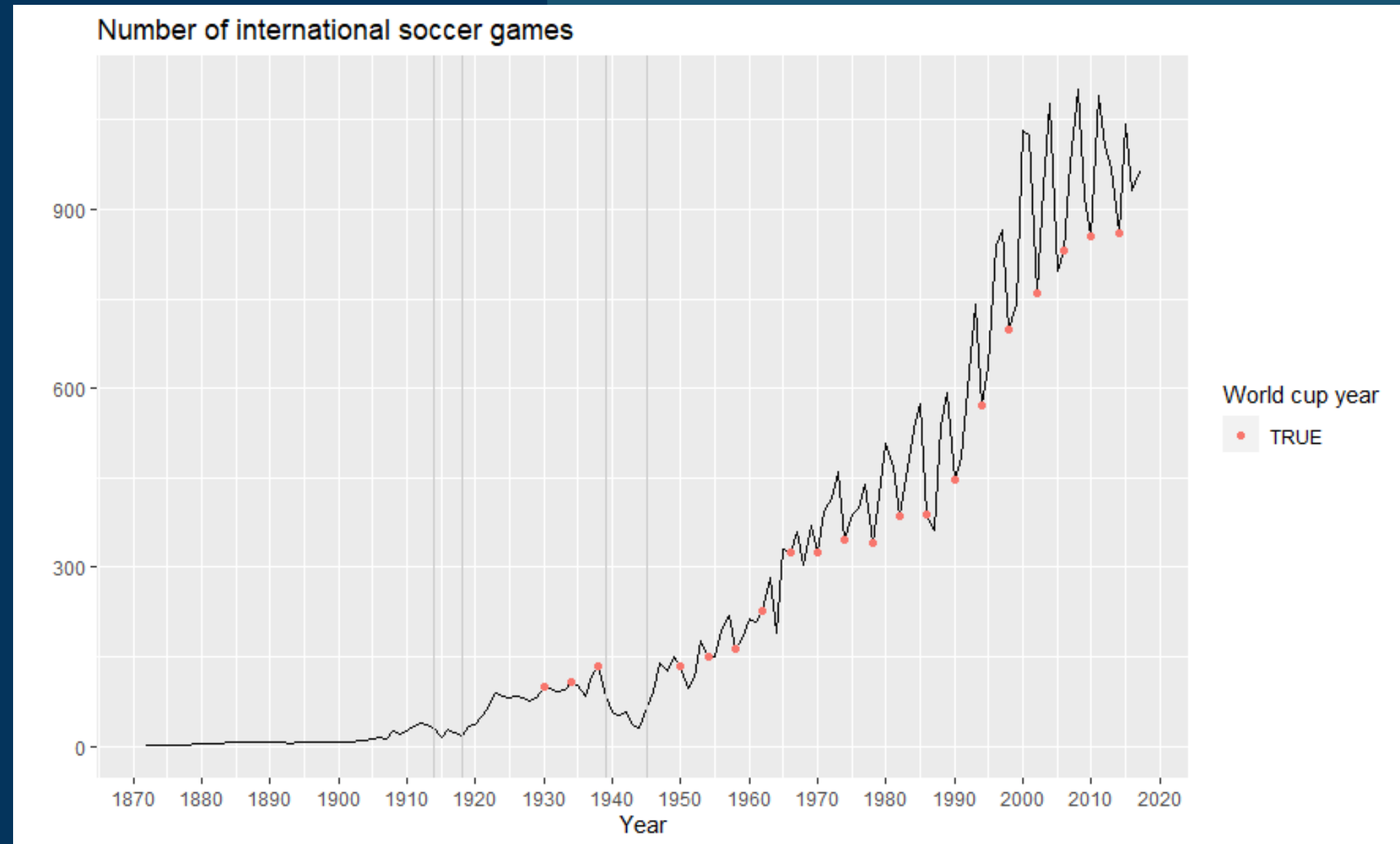
IMPLEMENTATION

THE GRAPH SHOWS NO
OF GAMES WERE
PLAYED EACH YEAR
AND HOW THE TOTAL
NUMBER OF
INTERNATIONAL
GAMES EVOLVE WITH
TIME.



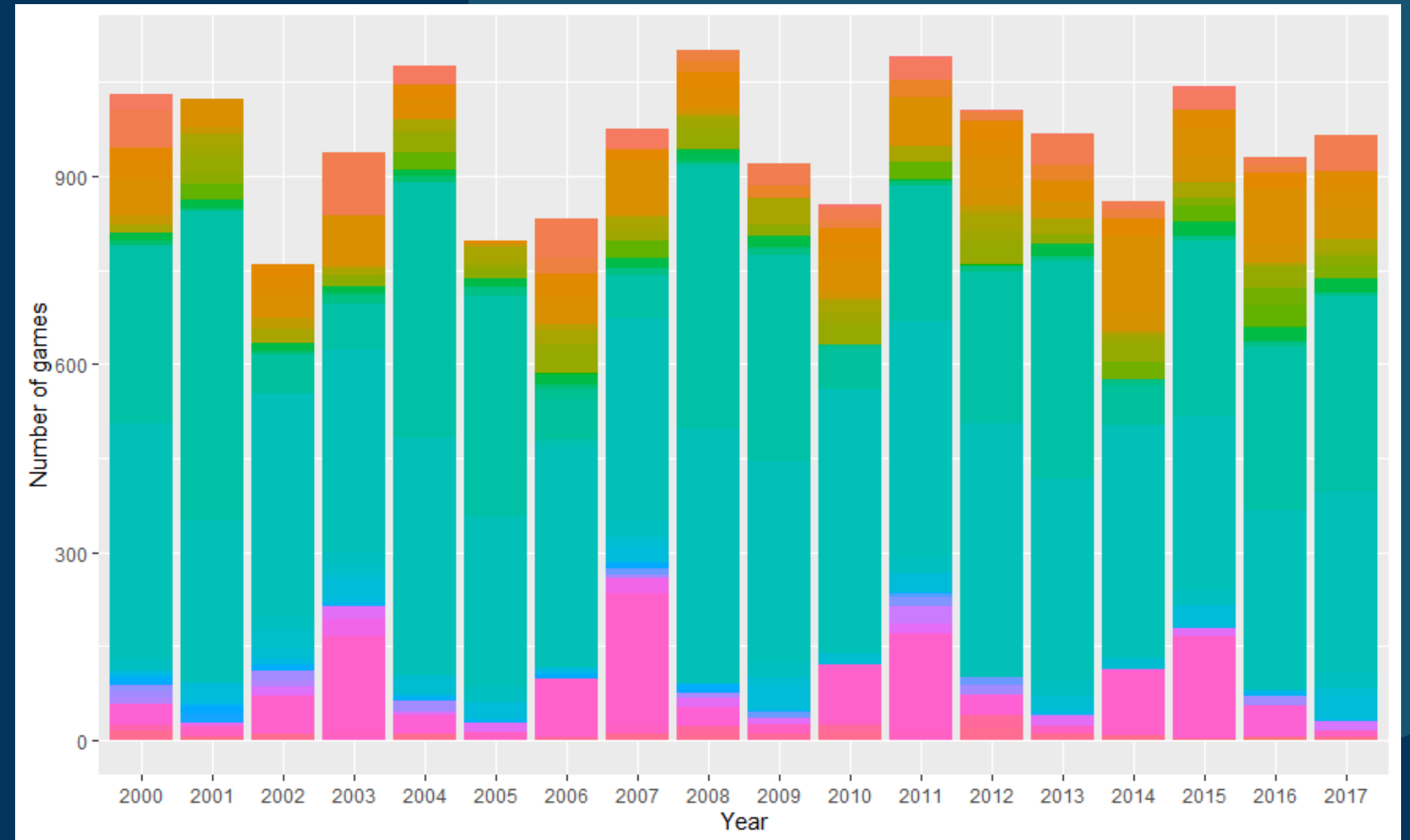
IMPLEMENTATION

THE GRAPH SHOWS NO
OF WORLD CUP GAMES
PLAYED EACH YEAR
AND HOW THE TOTAL
NUMBER OF WORLD
CUP GAMES EVOLVE
WITH TIME.



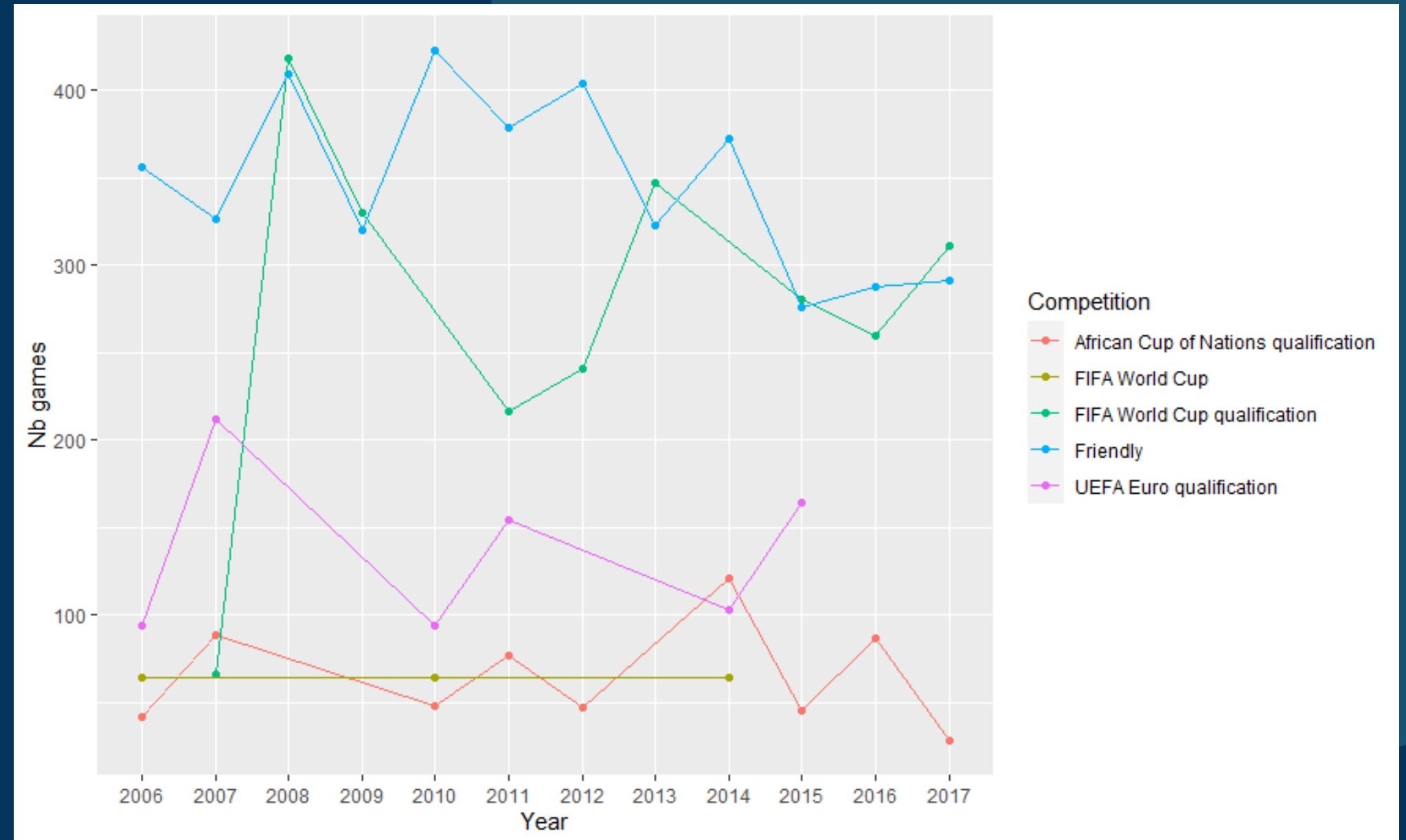
IMPLEMENTATION

WE CAN SEE THAT
SOME
EVENTS/TOURNAMENT
S ARE MORE FREQUENT
ON NON-WORLD CUP
YEARS SUCH AS 2007
OR 2011. LET'S CHECK
WHAT THEY ARE.



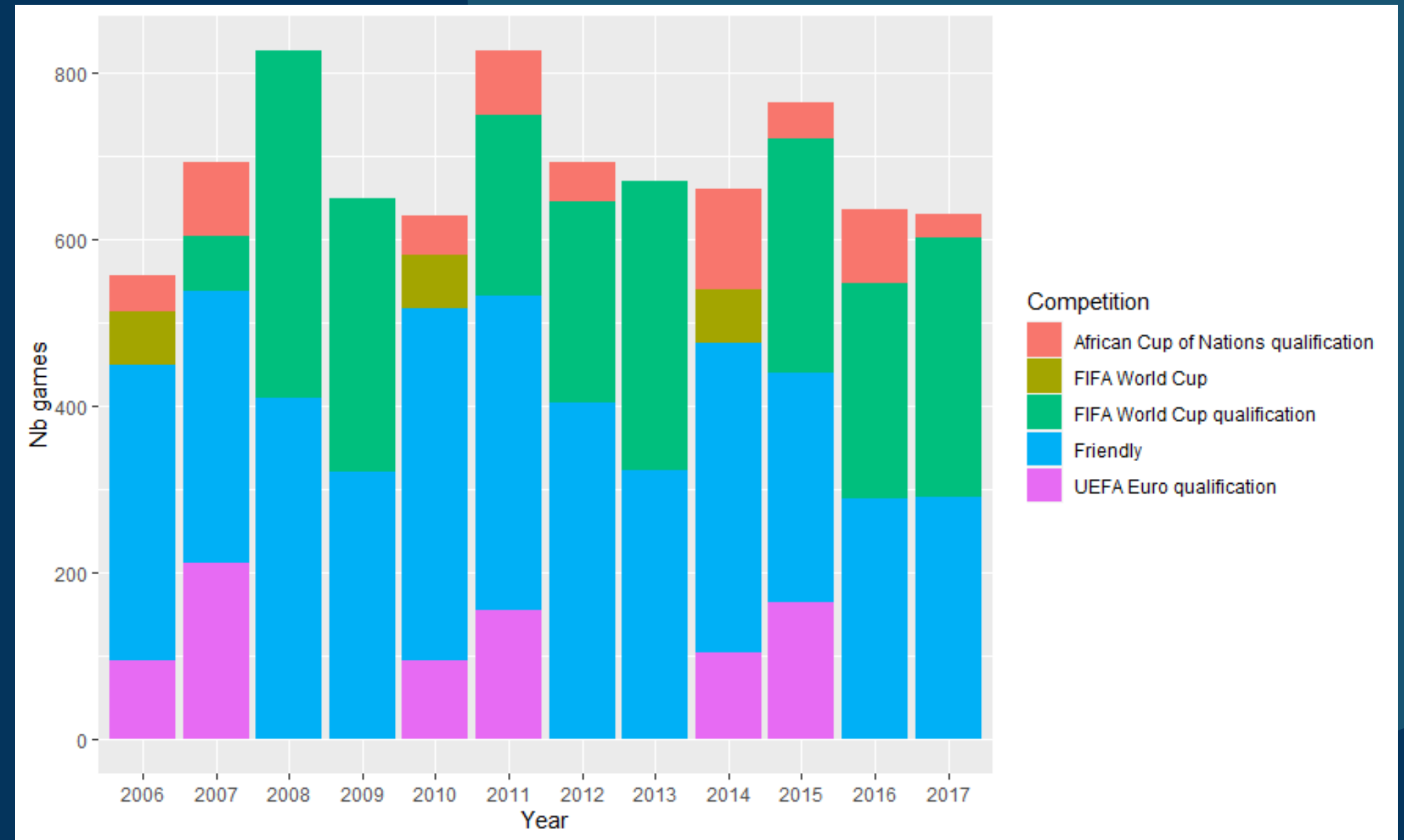
IMPLEMENTATION

**WORLD CUP
QUALIFICATIONS
GENERATES MUCH
MORE MATCHES THAN
THE WORLD CUP
ITSELF, WHICH MAKES
SENSE AS THE WORLD
CUP ONLY CONCERNS
32 COUNTRIES.**



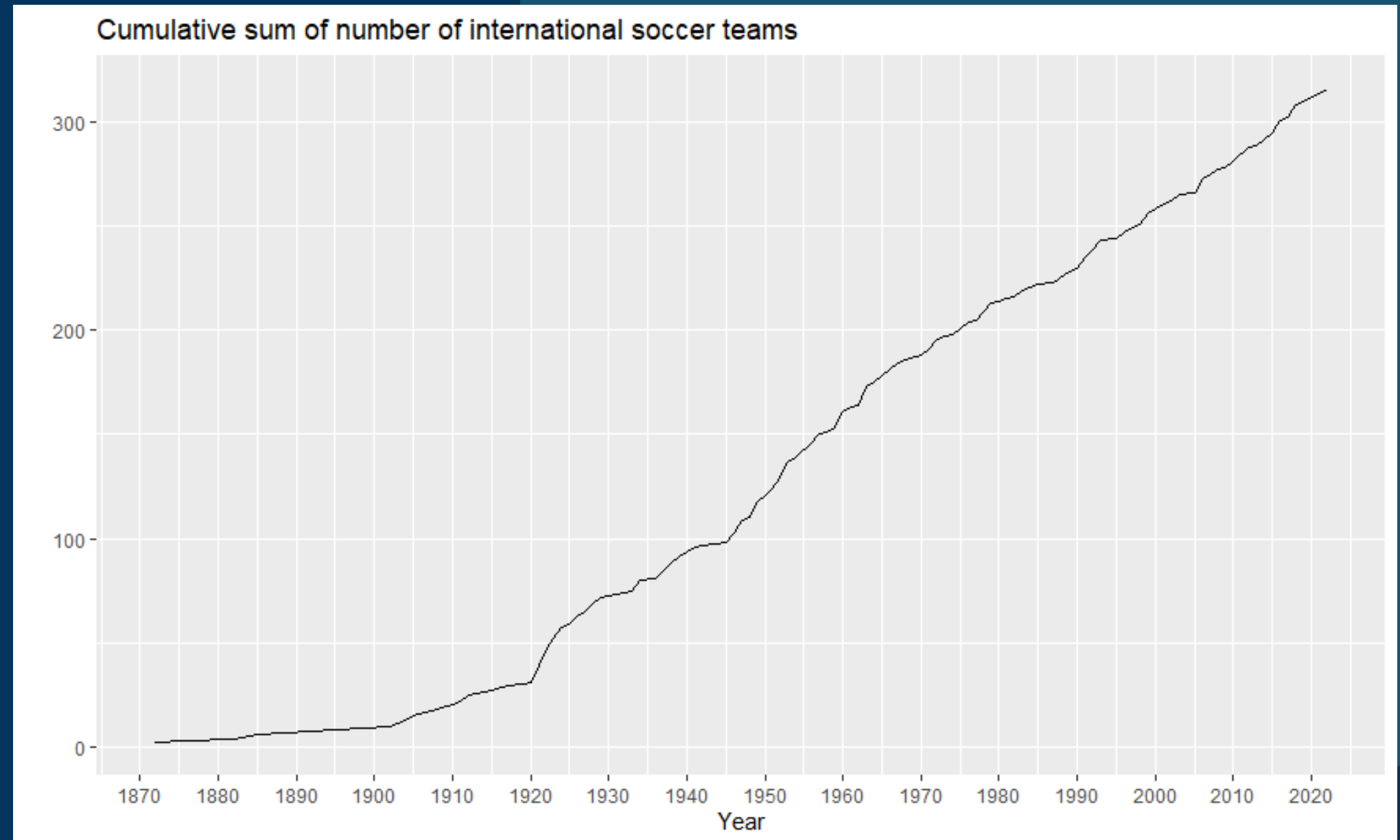
IMPLEMENTATION

NON WORLD CUP EVENTS BAR PLOT



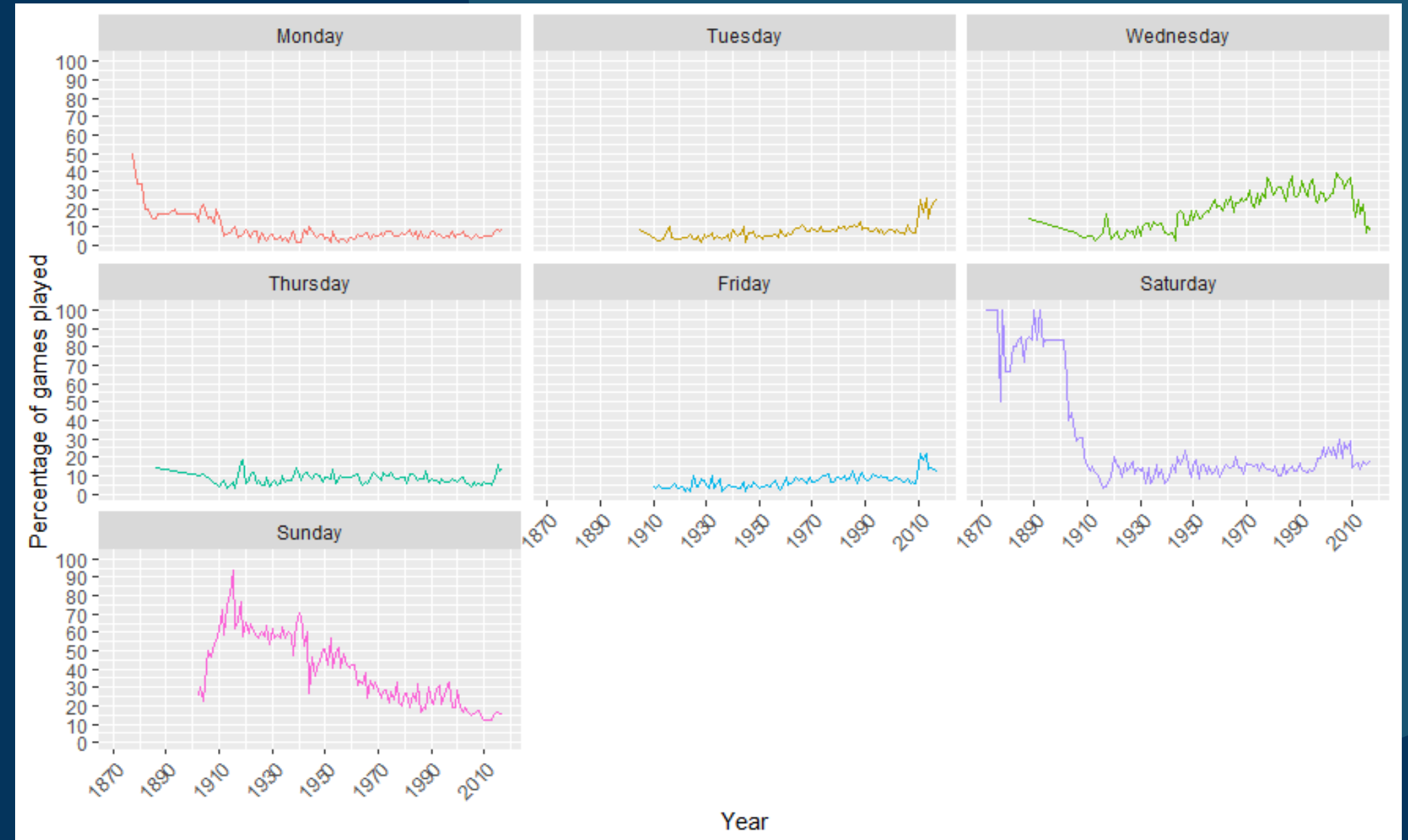
IMPLEMENTATION

**THE GRAPH SHOWS
CUMULATIVE SUM OF
NO OF INTERNATIONAL
SOCCER TEAMS**



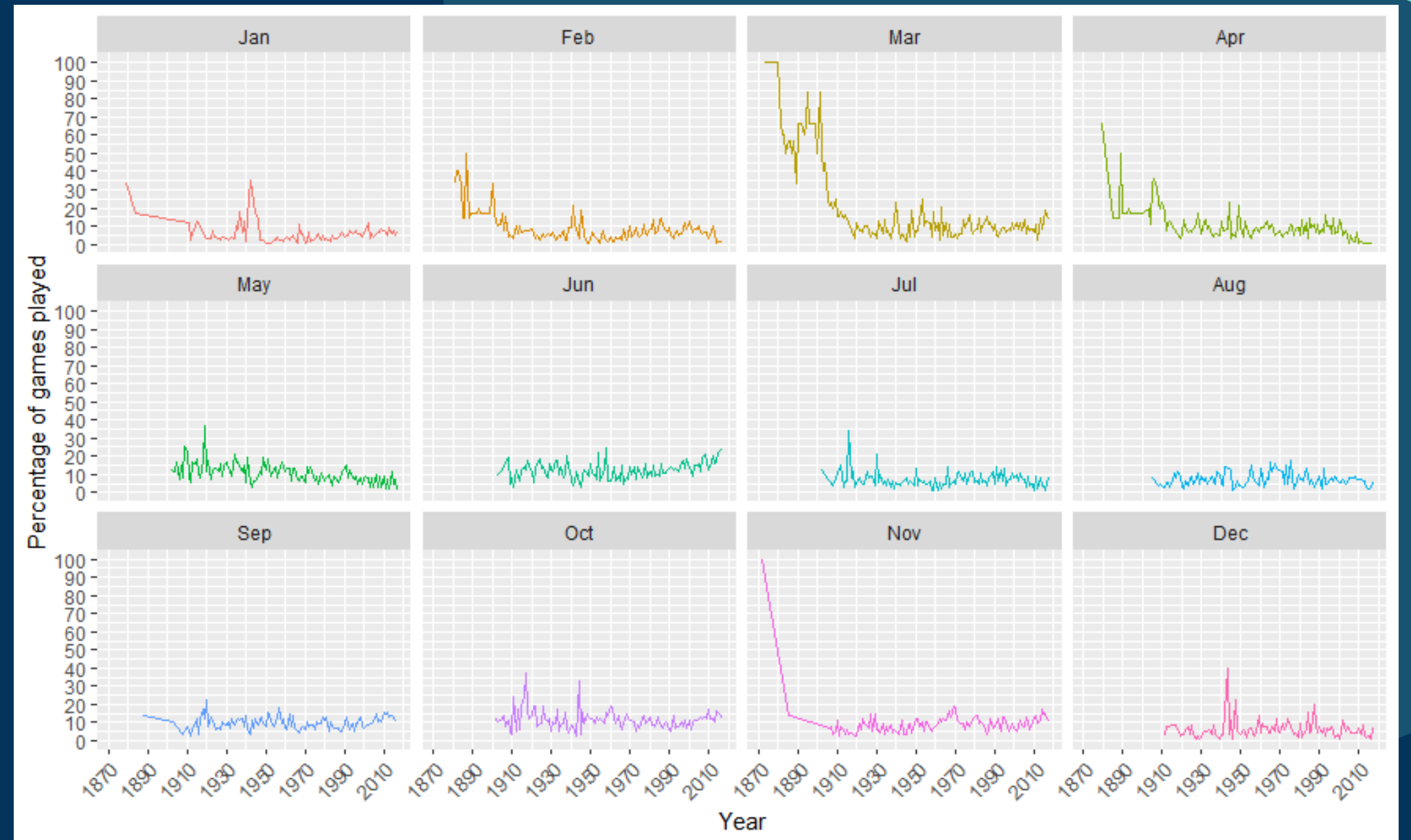
IMPLEMENTATION

THE GRAPH SHOWS
THE COMPARISON
BETWEEN THE DAYS ON
THE BASIS OF NO OF
SOCCER GAMES
PLAYED



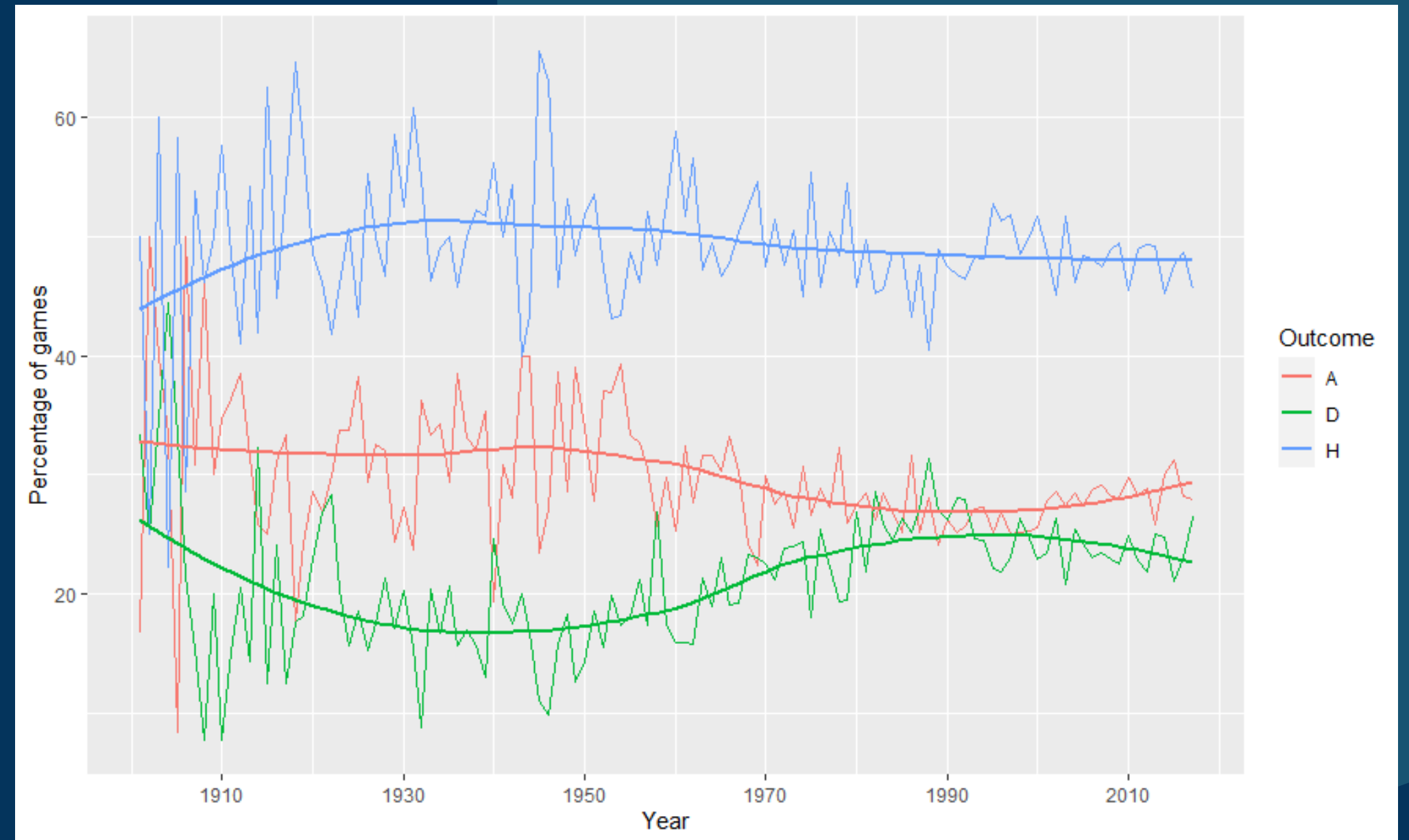
IMPLEMENTATION

**THE GRAPH SHOWS
THE COMPARISON
BETWEEN THE MONTHS
ON THE BASIS OF NO
OF SOCCER GAMES
PLAYED**



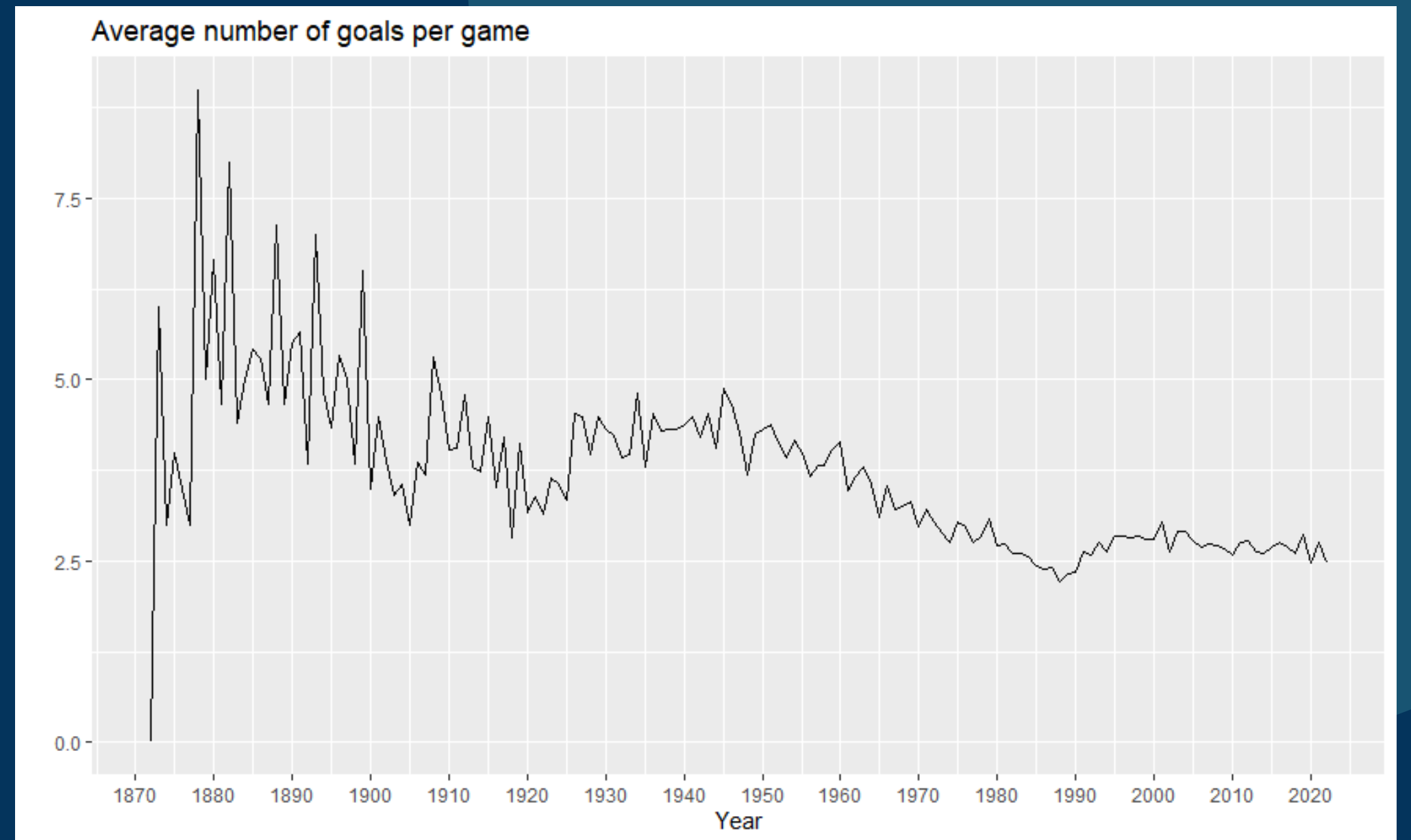
IMPLEMENTATION

THE GRAPH SHOWS
THE PERCENTAGE OF
GAMES A D H



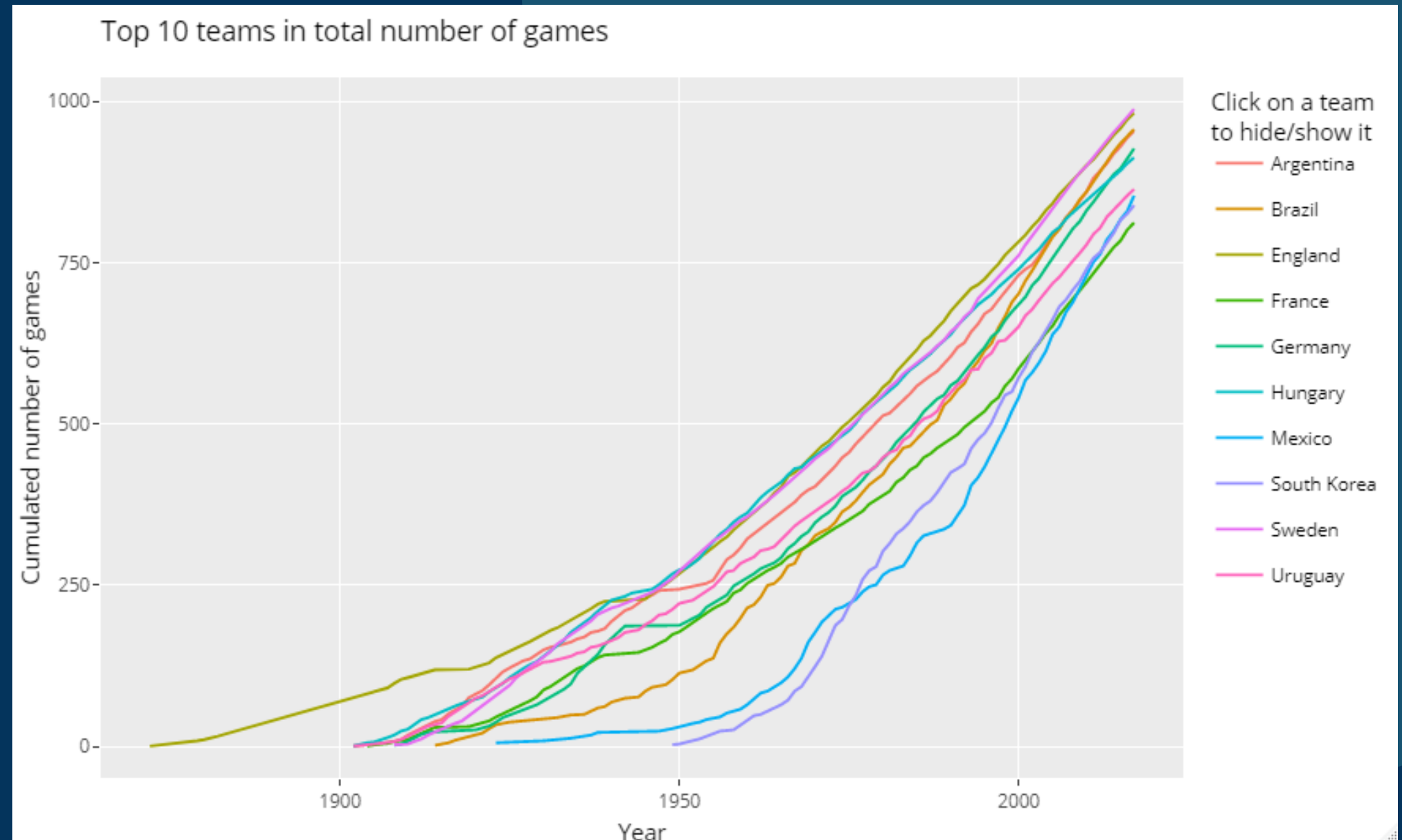
IMPLEMENTATION

**THE GRAPH SHOWS
AVERAGE NUMBER OF
GOALS PER GAME**



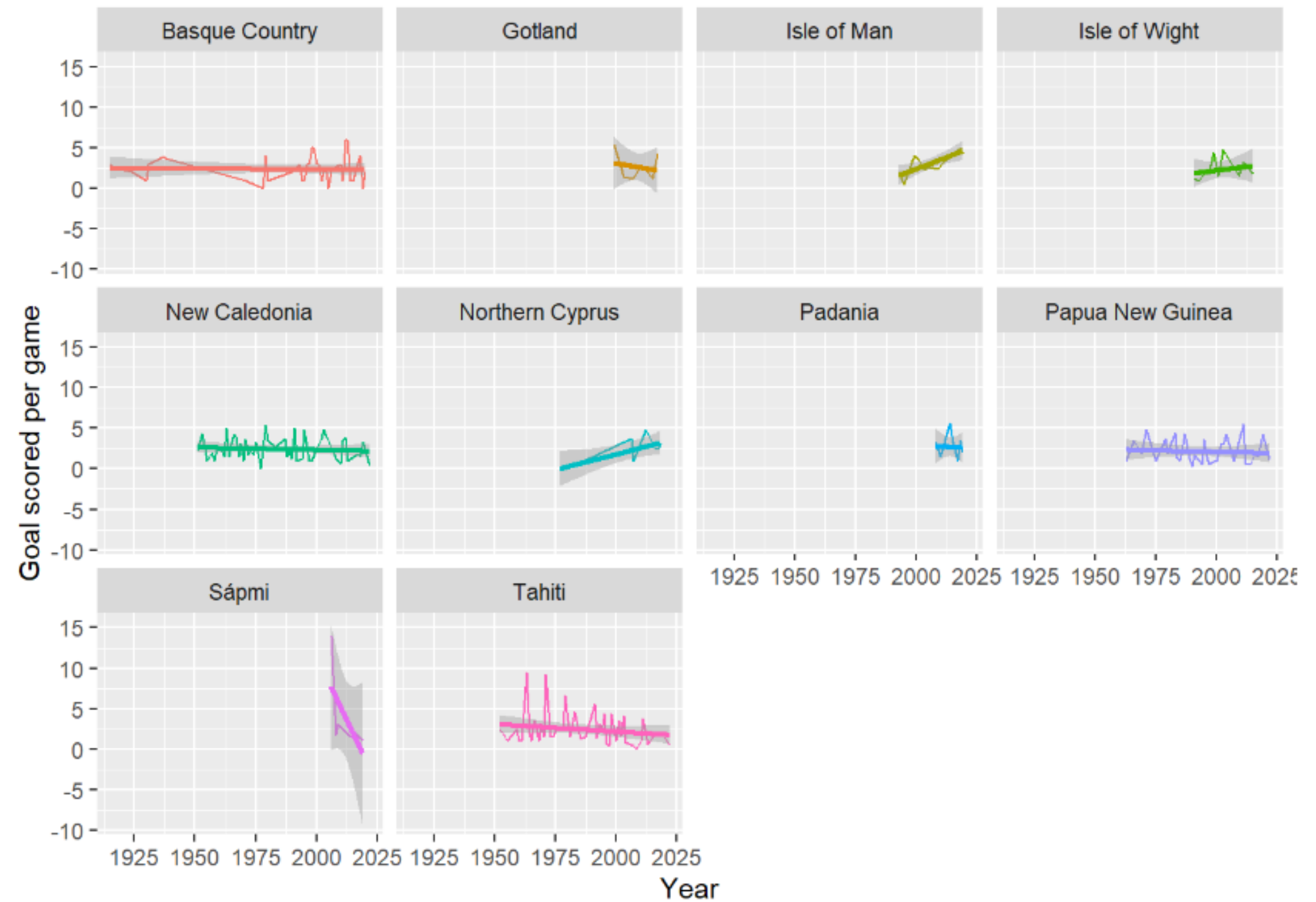
IMPLEMENTATION

THE GRAPH SHOWS
TOP TEN INTERACTIVE
WINNING TEAMS



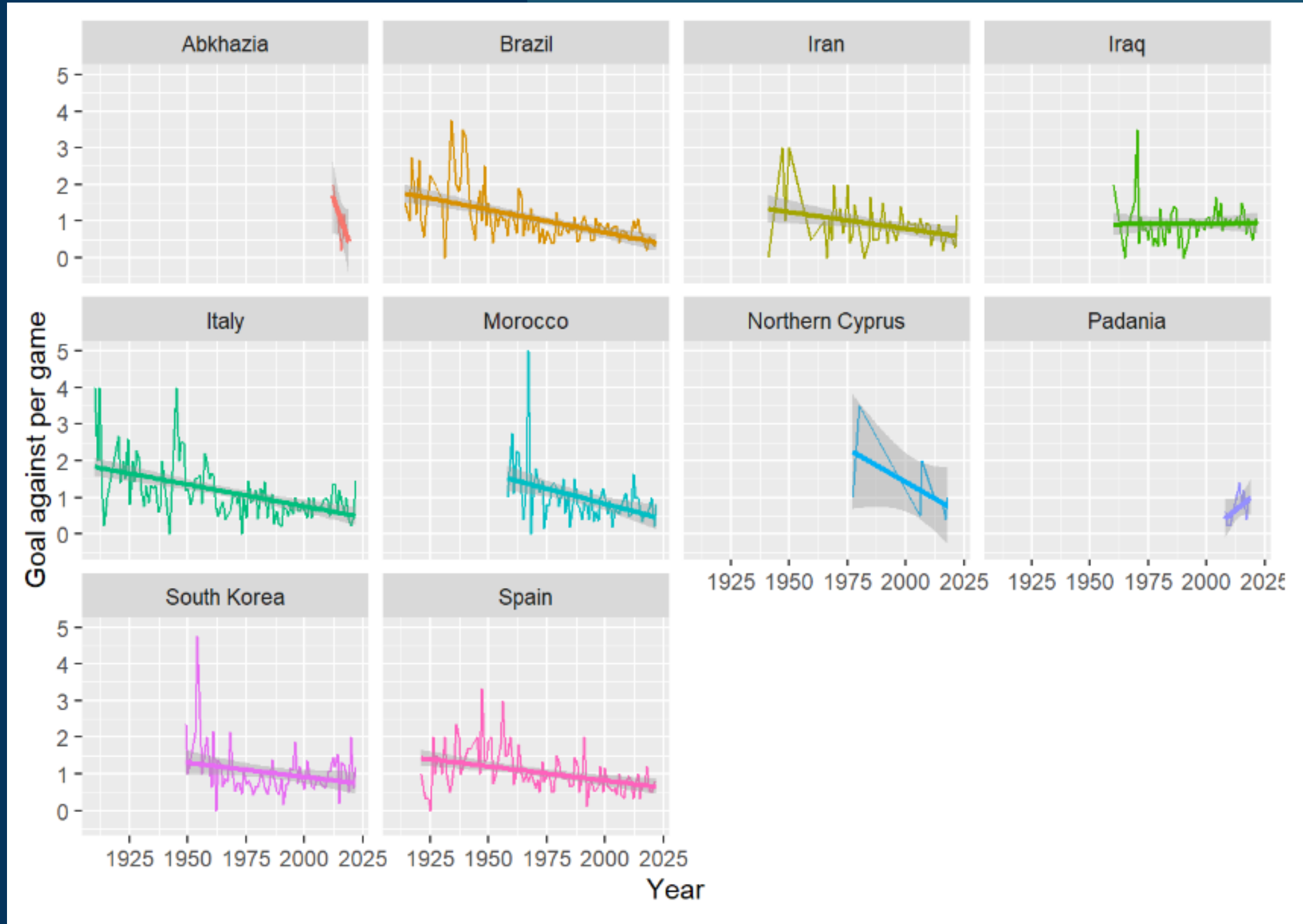
IMPLEMENTATION

THE GRAPH SHOWS
NUMBER OF GOALS
SCORED PER GAME



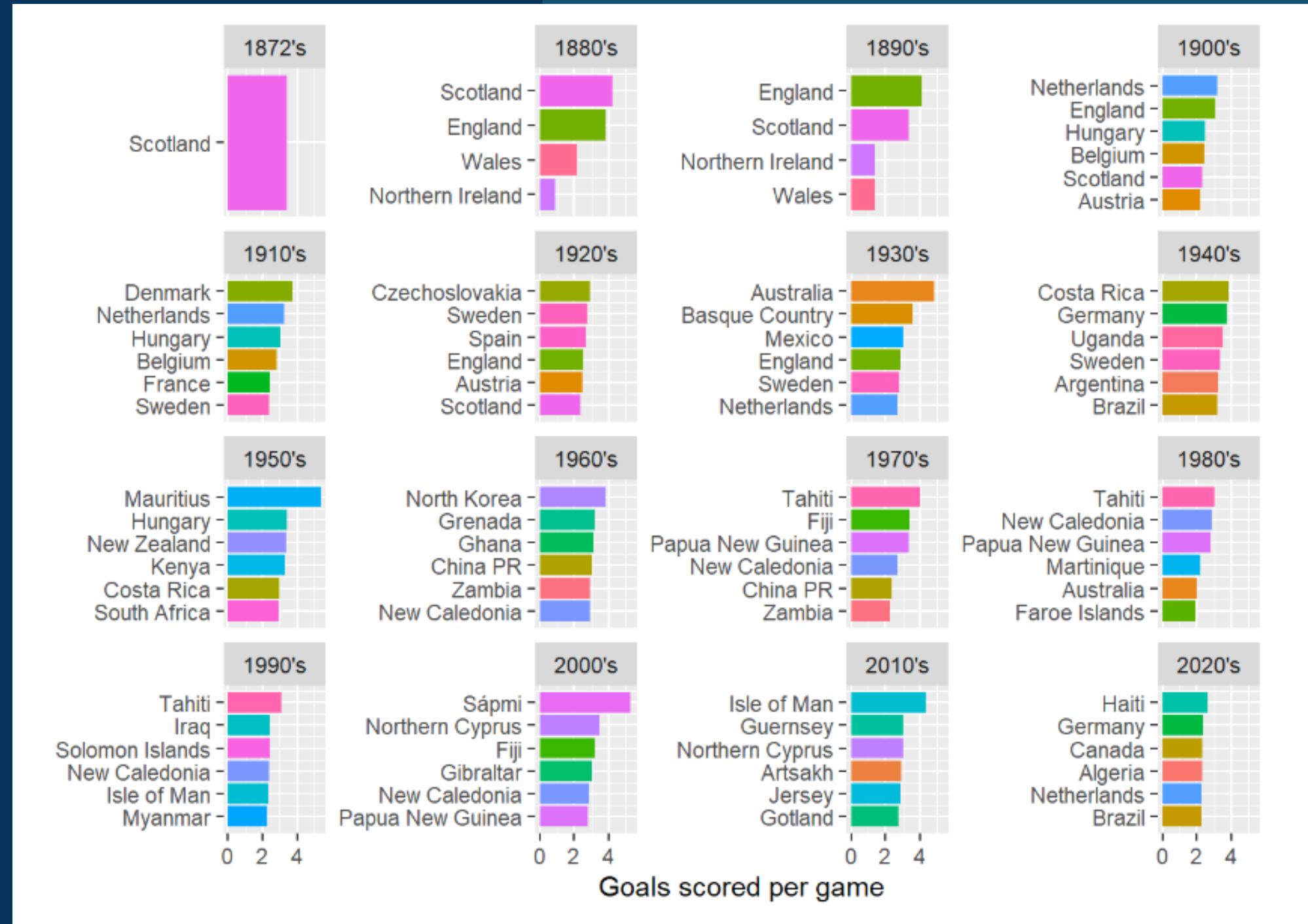
IMPLEMENTATION

THE GRAPH SHOWS
NUMBER OF GOALS
AGAINST PER GAME



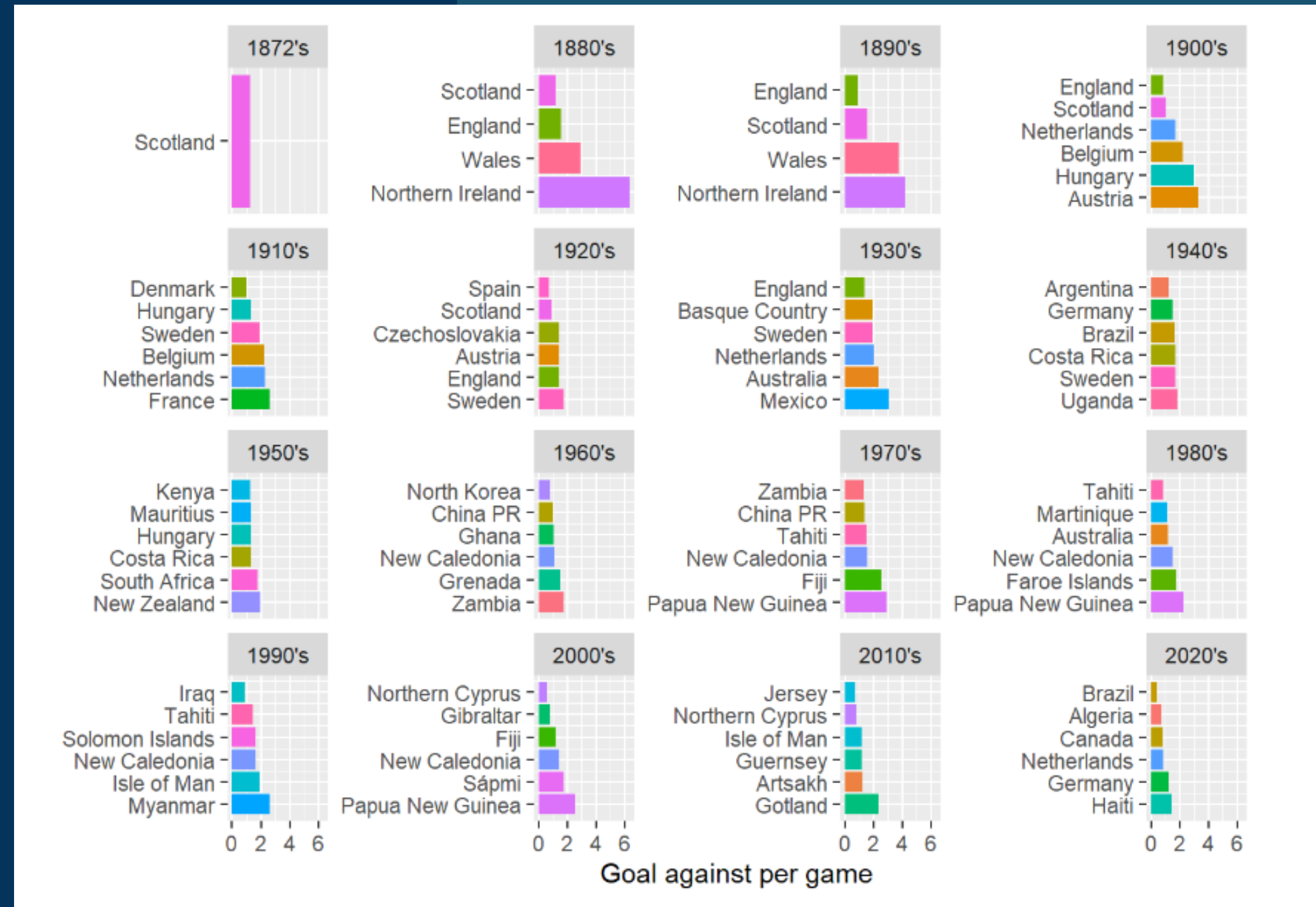
IMPLEMENTATION

THE GRAPH SHOWS
NUMBER OF GOALS
SCORED PER GAME



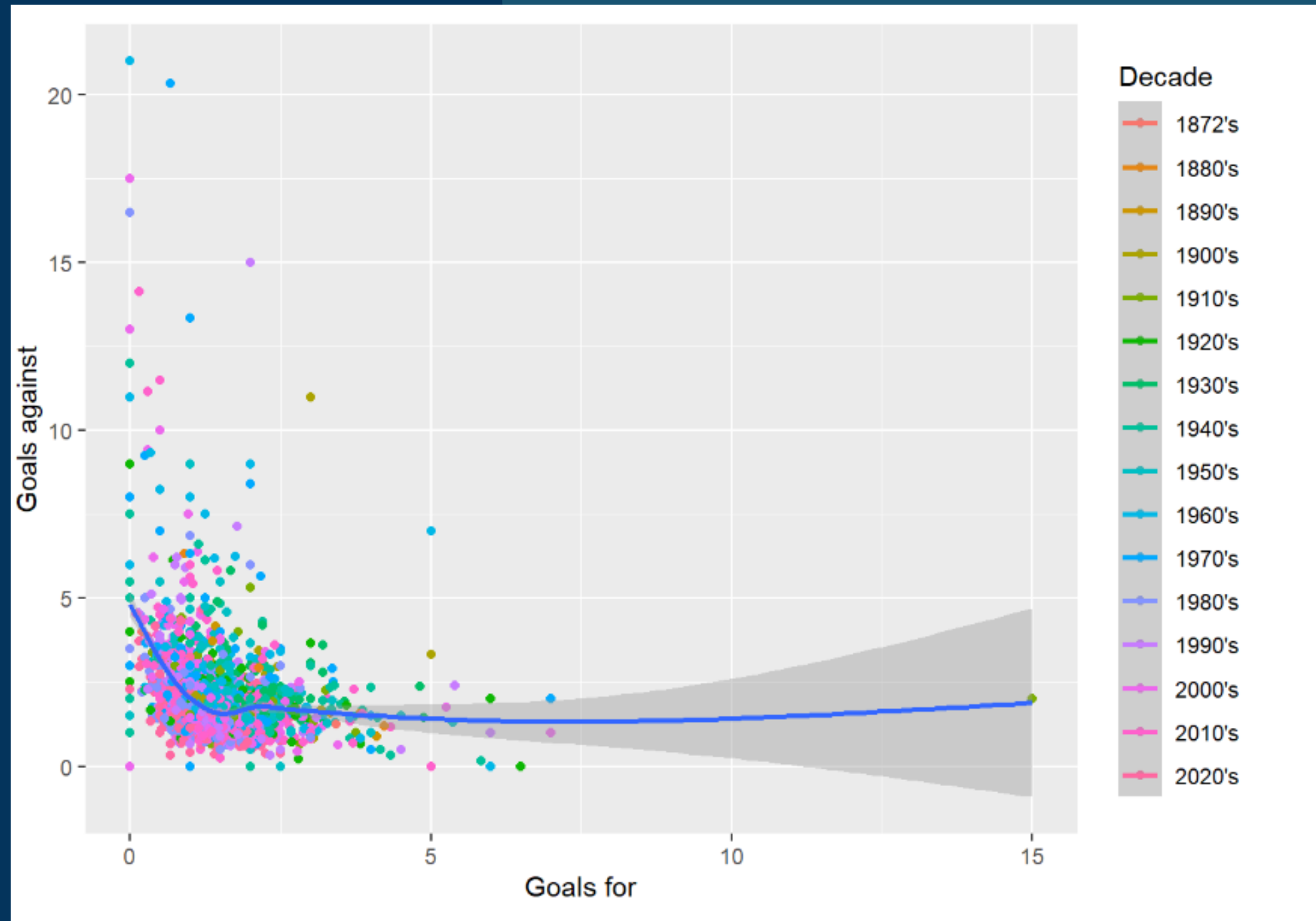
IMPLEMENTATION

THE GRAPH SHOWS
NUMBER OF GOALS
AGAINST PER GAME



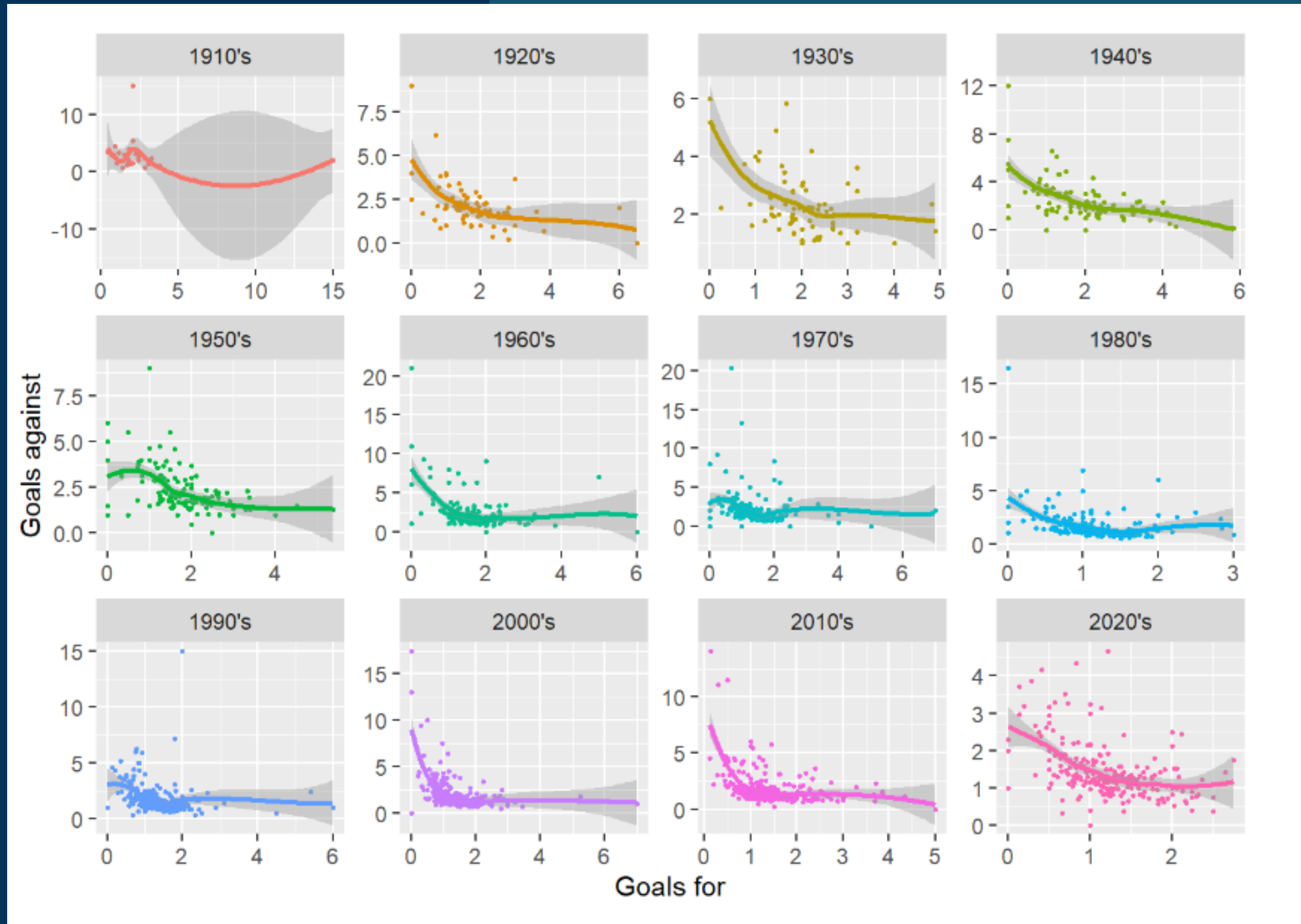
IMPLEMENTATION

GOALS FOR VS GOALS AGAINST GRAPH



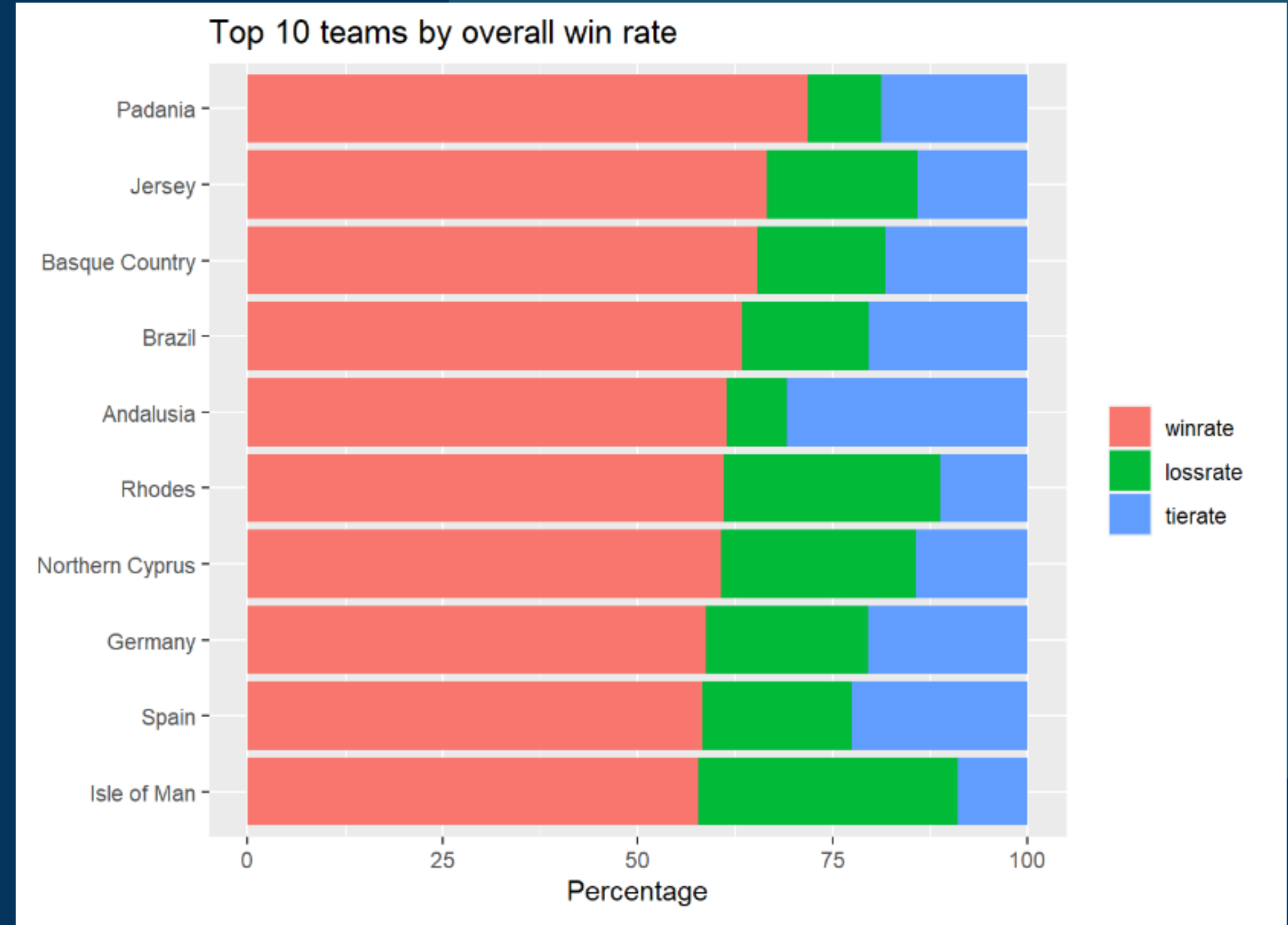
IMPLEMENTATION

GOALS FOR VS GOALS AGAINST GRAPH



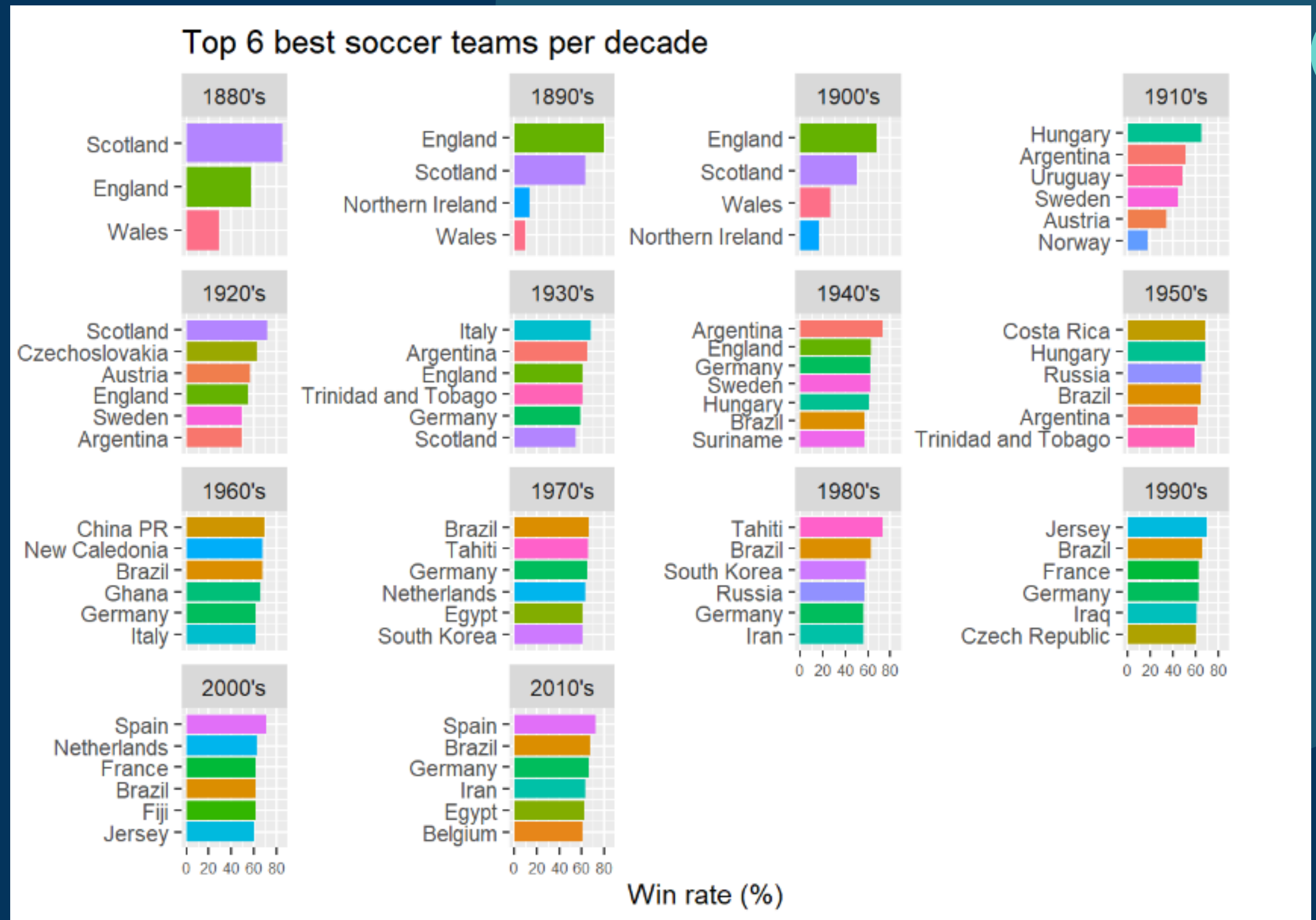
IMPLEMENTATION

GRAPH SHOWS TOP 10
TEAMS BY OVERALL
WIN RATE



IMPLEMENTATION

GRAPH SHOWS TOP 6
BEST SOCCER TEAMS
PER DECADE



REFERENCES

[1] <https://www.kaggle.com/martj42/international-football-results-from-1872-to-2017>



THANK YOU!